

AMENDMENTS TO THE CLAIMS

Please amend Claims 1, 2, 4-6, 9, 11, 13, 14, 16, 17, 19-21, 24, 26, 28, 29, 31, 32, 34-36, 39, 41, 43 and 44.

1. (Currently Amended) A process for intelligent server streaming of conventionally coded streamed application programs across a computer network while concurrently executing said streamed application programs on a client in a computer environment, comprising the steps of:

~~downloading installing an initial~~ portion of an streamed application program on said client wherein said streamed application program comprises page segments and wherein said initial portion of said streamed application remains on said client after terminating execution of said streamed application by said client;

providing an application server;

partitioning said streamed application program into said appropriate page segments on said application server;

wherein said application server streams said page segments to said client upon said client's request;

~~executing said application program on said client;~~

wherein the user starts said streamed application program ~~in the same manner as if said~~ streamed application program were fully installed on said client;

wherein specific page segments are requested by said client's file system during execution of said streamed application program such that said streamed application program begins execution on said client prior to downloading all of said page segments; and

storing said page segments in a cache on said client.

2. (Currently Amended) The process of claim 1, wherein said streamed application program is not recompiled, rewritten, or rebuilt for this specific delivery mechanism.

3. (Original) The process of claim 1, wherein said client manages said cache by purging page segments that are stale or not needed.

Appl. No. : **09/784,699**
Filed : **February 14, 2001**

4. (Currently Amended) The process of claim 1, wherein said client does not request page segments of said streamed application program that already reside in said cache.

5. (Currently Amended) The process of claim 1, further comprising the step of:

providing a subscription server; and

wherein the user subscribes or unsubscribes to streamed application programs with said subscription server.

6. (Currently Amended) The process of claim 1, further comprising the step of:

providing a license server; and

wherein said client obtains an access token for a requested streamed application program from said license server if the user has a valid subscription to said requested streamed application program.

7. (Original) The process of claim 6, wherein said access token contains an expiration tag.

8. (Original) The process of claim 6, wherein said access token is securely encrypted.

9. (Currently Amended) The process of claim 6, wherein said client passes said access token to said application server before requesting page segments of said streamed application program.

10. (Original) The process of claim 6, wherein if said license server fails said client automatically switches to another license server.

11. (Currently Amended) The process of claim 1, further comprising the step of:

providing a profile information database characterizing the typical page segment needs of each streamed application program on said application server.

12. (Original) The process of claim 11, wherein said profile information database is updated dynamically as page segments are requested from said application server.

13. (Currently Amended) The process of claim 11, wherein said client prefetches page segments of said streamed application program from said application server based on the profile information of said streamed application program.

14. (Currently Amended) The process of claim 11, wherein said application server pushes page segments of said streamed application program to said client based on the profile information of said streamed application program.

15. (Original) The process of claim 1, wherein said client performs load balancing among a plurality of application servers for page segment requests.

16. (Currently Amended) An apparatus for intelligent server streaming of conventionally coded streamed application programs across a computer network while concurrently executing said streamed application programs on a client in a computer environment, comprising:

a module for downloading installing an initial portion of an streamed application program on said client wherein said streamed application program comprises page segments and wherein said initial portion of said streamed application program remains on said client after terminating execution of said streamed application program by said client;

an application server;

partitioning said streamed application program into said appropriate page segments on said application server;

wherein said application server streams said page segments to said client upon said client's request;

~~a module for executing said application program on said client;~~

wherein the user starts said streamed application program ~~in the same manner as if said~~ streamed application program were fully installed on said client;

wherein specific page segments are requested by said client's file system during execution of said streamed application program such that said streamed application program begins execution on said client prior to downloading all of said page segments; and

a module for storing said page segments in a cache on said client.

17. (Currently Amended) The apparatus of claim 16, wherein said streamed application program is not recompiled, rewritten, or rebuilt for this specific delivery mechanism.

18. (Original) The apparatus of claim 16, wherein said client manages said cache by purging page segments that are stale or not needed.

19. (Currently Amended) The apparatus of claim 16, wherein said client does not request page segments of said streamed application program that already reside in said cache.

20. (Currently Amended) The apparatus of claim 16, further comprising:

a subscription server; and

wherein the user subscribes or unsubscribes to streamed application programs with said subscription server.

21. (Currently Amended) The apparatus of claim 16, further comprising:

a license server; and

wherein said client obtains an access token for a requested streamed application program from said license server if the user has a valid subscription to said requested streamed application program.

22. (Original) The apparatus of claim 21, wherein said access token contains an expiration tag.

23. (Original) The apparatus of claim 21, wherein said access token is securely encrypted.

24. (Currently Amended) The apparatus of claim 21, wherein said client passes said access token to said application server before requesting page segments of said streamed application program.

25. (Original) The apparatus of claim 21, wherein if said license server fails said client automatically switches to another license server.

26. (Currently Amended) The apparatus of claim 16, further comprising:

a profile information database characterizing the typical page segment needs of each streamed application program on said application server.

27. (Original) The apparatus of claim 26, wherein said profile information database is updated dynamically as page segments are requested from said application server.

Appl. No. : **09/784,699**
Filed : **February 14, 2001**

28. (Currently Amended) The apparatus of claim 26, wherein said client prefetches page segments of said streamed application program from said application server based on the profile information of said streamed application program.

29. (Currently Amended) The apparatus of claim 26, wherein said application server pushes page segments of said streamed application program to said client based on the profile information of said streamed application program.

30. (Original) The apparatus of claim 16, wherein said client performs load balancing among a plurality of application servers for page segment requests.

Appl. No. : 09/784,699
Filed : February 14, 2001

31. (Currently Amended) A program storage medium readable by a computer, tangibly embodying a program of instructions executable by the computer to perform method steps for intelligent server streaming of conventionally coded streamed application programs across a computer network while concurrently executing said streamed application programs on a client in a computer environment, comprising the steps of:

~~downloading an initial installing a portion of an~~ streamed application program on said client wherein said streamed application program comprises page segments and wherein said initial portion of said streamed application program remains on said client after terminating execution of said streamed application program by said client;

providing an application server;

partitioning said streamed application program into said appropriate page segments on said application server;

wherein said application server streams said page segments to said client upon said client's request;

~~executing said application program on said client;~~

wherein the user starts said streamed application program ~~in the same manner as if said~~ streamed application program were fully installed on said client;

wherein specific page segments are requested by said client's file system during execution of said streamed application program such that said streamed application program begins execution of said client prior to downloading all of said page segments; and

storing said page segments in a cache on said client.

32. (Currently Amended) The method of claim 31, wherein said streamed application program is not recompiled, rewritten, or rebuilt for this specific delivery mechanism.

33. (Original) The method of claim 31, wherein said client manages said cache by purging page segments that are stale or not needed.

Appl. No. : **09/784,699**
Filed : **February 14, 2001**

34. (Currently Amended) The method of claim 31, wherein said client does not request page segments of said streamed application program that already reside in said cache.

35. (Currently Amended) The method of claim 31, further comprising the step of:

providing a subscription server; and

wherein the user subscribes or unsubscribes to streamed application programs with said subscription server.

36. (Currently Amended) The method of claim 31, further comprising the step of:

providing a license server; and

wherein said client obtains an access token for a requested streamed application program from said license server if the user has a valid subscription to said requested streamed application program.

37. (Original) The method of claim 36, wherein said access token contains an expiration tag.

38. (Original) The method of claim 36, wherein said access token is securely encrypted.

39. (Currently Amended) The method of claim 36, wherein said client passes said access token to said application server before requesting page segments of said streamed application program.

40. (Original) The method of claim 36, wherein if said license server fails said client automatically switches to another license server.

41. (Currently Amended) The method of claim 31, further comprising the step of:

providing a profile information database characterizing the typical page segment needs of each streamed application program on said application server.

42. (Original) The method of claim 41, wherein said profile information database is updated dynamically as page segments are requested from said application server.

Appl. No. : **09/784,699**
Filed : **February 14, 2001**

43. (Currently Amended) The method of claim 41, wherein said client prefetches page segments of said streamed application program from said application server based on the profile information of said streamed application program.

44. (Currently Amended) The method of claim 41, wherein said application server pushes page segments of said streamed application program to said client based on the profile information of said streamed application program.

45. (Original) The method of claim 31, wherein said client performs load balancing among a plurality of application servers for page segment requests.

Appl. No. : 09/784,699
Filed : February 14, 2001

SUMMARY OF EXAMINER INTERVIEW

Identification of Claims Discussed

Claim 1 was discussed.

Identification of Prior Art Discussed

U.S. Patent Nos. 6,687,745 and 6,735,631 were discussed.

Proposed Clarifications

During the interview the application program was clarified to be a streamed application program, the step of downloading was clarified and wherein the application program begins execution prior to downloading of all page segments.

Results of Interview

The Examiner agreed that the claims were distinguished over the cited references.